

CLAIMS

1. A solid electrolytic capacitor comprising:
 - a porous sintered body of valve metal;
 - 5 a first and a second anode wires partially extending into the porous sintered body, portions of the first and the second anode wires which project out from the porous sintered body serving as a first and a second anode terminals; and
 - a cathode including a solid electrolytic layer formed on
 - 10 a surface of the porous sintered body;
 - wherein the first anode wire and the second anode wire extend into the porous sintered body in different directions from each other.
- 15 2. The solid electrolytic capacitor according to claim 1, wherein the direction in which the first anode wire extends and the direction in which the second anode wire extends are opposite from each other.
- 20 3. The solid electrolytic capacitor according to claim 1, further comprising a conductive member for electrically connecting the first and the second anode terminals to each other.
4. The solid electrolytic capacitor according to claim 1, wherein
- 25 the porous sintered body is flat.

5. The solid electrolytic capacitor according to claim 3, wherein the conductive member includes a metal cover covering at least part of the porous sintered body; and

wherein the solid electrolytic capacitor further comprises
5 an insulating member interposed between the metal cover and the cathode.

6. The solid electrolytic capacitor according to claim 5, wherein the metal cover is formed with a plurality of holes.

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7. The solid electrolytic capacitor according to claim 5, wherein the metal cover is formed with a slit.

8. The solid electrolytic capacitor according to claim 5, wherein
15 the metal cover is formed with a bent portion.

9. The solid electrolytic capacitor according to claim 5, further comprising an external anode terminal for surface mounting which is electrically connected to the first and the second anode
20 terminals, and an external cathode terminal for surface mounting which is electrically connected to the cathode.

10. The solid electrolytic capacitor according to claim 3, wherein the conductive member includes an anode metal plate;
25 and

wherein the solid electrolytic capacitor further comprises an insulating member interposed between the anode metal plate

and the cathode.

11. The solid electrolytic capacitor according to claim 10,
wherein at least part of the anode metal plate serves as an
5 external anode terminal for surface mounting.

12. The solid electrolytic capacitor according to claim 10,
wherein the anode metal plate is formed with a slit.

10 13. The solid electrolytic capacitor according to claim 10,
further comprising a cathode metal plate electrically connected
to the cathode and interposed between the cathode and the
insulating member.

15 14. The solid electrolytic capacitor according to claim 13,
wherein at least part of the cathode metal plate serves as an
external cathode terminal for surface mounting.

15. The solid electrolytic capacitor according to claim 10,
20 further comprising a metal cover electrically connected to the
cathode and covering at least part of the porous sintered body.

16. The solid electrolytic capacitor according to claim 15,
wherein at least part of the metal cover serves as an external
25 cathode terminal for surface mounting.

17. The solid electrolytic capacitor according to claim 5,
wherein the insulating member includes a resin film.

18. The solid electrolytic capacitor according to claim 5,
5 wherein the insulating member includes a ceramic plate.

19. The solid electrolytic capacitor according to claim 3,
wherein the first and the second anode terminals are anode
terminals for inputting and outputting which enable circuit
10 current to flow through the porous sintered body; and

wherein the conductive member forms a bypass current path
which enables circuit current to flow from the anode terminal
for inputting to the anode terminal for outputting while
detouring around the porous sintered body.

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20. The solid electrolytic capacitor according to claim 19,
wherein the bypass current path between the anode terminals
for inputting and outputting has resistance which is lower than
resistance of the porous sintered body between the anode
20 terminals for inputting and outputting.

21. The solid electrolytic capacitor according to claim 4,
wherein a plurality of porous sintered bodies are provided;
and

25 wherein the porous sintered bodies are stacked in a
thickness direction of the porous sintered bodies.

22. The solid electrolytic capacitor according to claim 4,
wherein a plurality of porous sintered bodies are provided;
and

wherein the porous sintered bodies are arranged side by
5 side in a direction crossing a thickness direction of the porous
sintered bodies.